

BRUHATH BENGALURU MAHANAGARA PALIKE
Yelahanka Division, Yelahanka Zone

Executive Engineer
Yelahanka Division
B.B.M.P. Bengaluru - 64

APPROVED TENDER SCHEDULE -'B'

No:EE/YNK-D/E-PMT/04/2014-15 Dated: 31-10-2014

Item No: 45

Name of Work:-Maintenance of Existing borewells and providing pipe line and drilling of borewell at village areas in ward No-02 of yelahanka Sub Division

Sl	Description	Unit	Approved Qty	Rate	
				Quoted by the Rate	Rate in Words
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Verner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., as per Specification and direction	Each	1.00	1882.00	Rupees one thousand eight hundred eighty two only
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmt			
	0 to 50 m		50.00	315.18	Rupees three hundred fifteen and paise eighteen only
	50 to 100 m		50.00	412.00	Rupees four hundred twelve only
	100 to 150 m		50.00	451.35	Rupees four hundred fifty eight and paise thirty five only
	150 to 200 m		50.00	481.10	Rupees four hundred eighty four and paise ten only
	200 to 250 m		50.00	560.32	Rupees five hundred sixty and paise thirty two only
	250 to 300m		50.00	600.49	Rupees six hundred and paise forty nine only

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3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material conforming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mls both ends threaded conforming to IS 554 / 1985, one end fixed with a socket and the other end with a plastic protection end (including of all taxes)	Rmt	60.00	1364.75	Rupees one thousand three hundred sixty four and paise seventy five only
4	Providing and fixing 250mm dia PVC 6 kg/sqcm pressure pipe including jointing and labour charges for laying pipes and as per specification and directions. (BWSSB SR 13-14, P.No.45 L.no.1 of sl.no.11.)	Each	18.00	1133.00	Rupees one thousand one hundred thirty three only
5	Providing and fixing 175mm Borewell cap	Each	1	100.00	Rupees one hundred only
6	Providing 175mm dia M.S Collar	Each	15.00	150.00	Rupees one hundred fifty only
7	Supply and delivery at site brand New texmo/ innova/ Lubi/ Sabar / Atalanta/ Calama/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 360/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return valve etc. complete. The pump and motor shall form an integral unit with all the required fittings	No	1.00	70600.00	Rupees seventy thousand six hundred only
8	Providing, GI pipes conforming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints whenever necessary as per direction including all lead & lift etc., complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD Page No XVII code No 509, 0154)	Rmt	548.00	330.63	Rupees three hundred thirty and paise sixty three only
9	Providing & fixing socket GI (heavy duty collar) (PwD SR pg xxxviii)	No	50.00	84.80	Rupees eighty four and paise eighty only
10	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Section mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/12.01.2019	Mtr	500.00	164.29	Rupees one hundred sixty four and paise twenty nine only
	(1x3x4.00 Sqmm PVC cable				

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11	Supplying & delivery at site brand new / Essen / Lotus sunshines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts. AC supply with spring loaded latch locking with a key rbs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	No	2.00	10000.00	Rupees ten thousand only
12	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	No	11000.00	0.34	Paise thirty four only
13	Providing & Fixing of clamps set and borewell cap to the pump.	No's	1.00	400.00	Rupees four hundred fifty only
14	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve.) (PWD SR 13-14, P.NO.XXIV, Sl.no, 673)	No's	3.00	1000.00	Rupees one thousand six hundred only
15	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributor pipeline. 50mm dia (PWD SR 13-14, P.NO.XXIV, Sl.no. 659)	No's	3.00	1100.00	Rupees one thousand one hundred forty five only
16	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's	3.00	210.00	Rupees two hundred nineteen only
17	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's	3.00	100.30	Rupees one hundred four and paise thirty only
18	Providing and fixing of 50mm GI union to the motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's	3.00	220.70	Rupees two hundred twenty three and paise seventy only
20	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Per length	52.00	90.64	Rupees ninety and paise sixty four only
21	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc., Complete for basement out door type. (MR)	No's	1.00	470.00	Rupees four hundred seventy five only
22	Supplying and fixing miniature circuit breakers/solators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's	1.00	900.40	Rupees nine hundred six and paise forty only

Sl	Description	Unit	Approved Qty	Rate	
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23	Supplying and laying of L.T. UG Cable having aluminium conductor PVC insulated sheathed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, LNO - 10 (d), BWSSB SR 13-14)	Mtr	35.00	169.95	Rupees one hundred sixty nine and paise ninety five only
	for Maintenance		30.00	169.95	Rupees one hundred sixty nine and paise ninety five only
24	Digging of trenches of 0.6m x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc. Complete cutting road surfaces (P.NO - 554, LNO - 12 (b), BWSSB SR 13-14) in hard soil	Mtr	65.00	56.65	Rupees fifty six and paise sixty five only
25	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, LNO - 15 (b), BWSSB SR 13-14)	Mtr	3.00	294.58	Rupees two hundred ninety four and paise fifty eight only
26	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit, the pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to the pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to complete depth the connections from the pipe to the conduit etc. is to be established through GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia bolts, nuts washers and checknuts etc. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, LNO - 7, BWSSB SR 13-14)	No's	1.00	1699.50	Rupees one thousand six hundred ninety nine and paise fifty only
27	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with necessary bitumen insulated compound complete with terminals, clamps, bolts nuts and washers etc. (P.NO - 555, LNO - 15 (b), BWSSB SR 13-14)	No's	1.00	271.92	Rupees two hundred seventy one and paise ninety two only
28	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery capacitor in KVAR rating No's. (MR)	No's	1.00	1350.00	Rupees one thousand three hundred fifty only
29	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc. Complete. 50mm dia (P.NO - 103, LNO - 13, 79.6, PWD SR 13-14)	No's	3.00	1515.80	Rupees one thousand five hundred fifteen and paise eighty only
30	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc. size 20 x 20 x 2.5 inches (P.NO - 521, LNO - 2 (f), BWSSB SR 13-14)	No's	1.00	311.58	Rupees three hundred eleven and paise fifty eight only
4	Lifting of Submersible Pump set (P.461.10.3.21 RDED SR (2002-03)	No	5.00	750.00	Rupees seven hundred fifty only
5	Transportation of pumping machineries (P.461.103RDED SR (2002-03)	No	5.00	800.00	Rupees eight hundred only
6	A) Repairs to Motor: Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6months. RDED SR (2002-03) P NO.39/ I.NO.A)				
	a) - Do - above 3HP up to 5HP	No	4.00	2500.00	Rupees two thousand five hundred only
	b) - Do - above 5HP upto 10 HP	No	1.00	3700.00	Rupees three thousand seven hundred only

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	(Above 5HP upto 10HP add Rs.115/- for every 1/2 HP)				
	B) Replacement of Motor Parts:				
7	Above 5HP Stator (with one year Guarantee) P.No.40/I No.C(2)RDED SR (2002-03)				
8	Above 5HP Rotor (with one year Guarantee) P.No.40/I No.C(2)RDED SR (2002-03)	No	3.00	4600.00	Rupees four thousand six hundred only
9	Upper Flange P.No.40/I No.3 RDED SR (2002-03)	No	3.00	4500.00	Rupees four thousand five hundred only
10	Lower Housing P.No.40/I No.4 RDED SR (2002-03)	No	8.00	340.00	Rupees three hundred fifty only
11	Lower Flange P.No.40/I No.5 RDED SR (2002-03)	No	8.00	575.00	Rupees five hundred seventy five only
12	a) Carbon Housing P.No.40/I No.7A RDED SR (2002-03)	No	8.00	380.00	Rupees three hundred fifty only
13	b) Thrust bearing block assembly complete with Segment bearing pad P.No.40/I No.7B RDED SR (2002-03)	No	8.00	450.00	Rupees four hundred fifty only
14	c) Tip Carbon / Fenodo padding P.No.40/I No.7C RDED SR (2002-03)	No	8.00	950.00	Rupees nine hundred fifty only
15	Bearing (Gun metal)Centrifugal cast Aluminium Bronze, bearing bush P.No.41/I No.9 RDED SR (2002-03)	No	8.00	75.00	Rupees seventy five only
16	Motor Base with pin P.No.41/I No.11 RDED SR (2002-03)	No	8.00	325.00	Rupees three hundred twenty five only
17	Re-erection charges of pumping machineries including overhauling and painting P.No.41/I No 13,RDED SR (2002-03)	No	8.00	450.00	Rupees four hundred fifty only
18	Labour Charge (overhauling Motor only) P.No.41/I No.15 RDED SR (2002-03)	No	8.00	850.00	Rupees eight hundred fifty only
19	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement Pump bowls P.No.39 / I No B1 RDED SR (2002-03)	No	8.00	450.00	Rupees four hundred fifty only
20	Intermediate piece (I.P) with IP leaded bronze bush P.No.44/ I No.B2 RDED SR (2002-03)	No	10.00	145.00	Rupees one hundred forty five only
21	Oil seal P.No.44/ I No.B3 RDED SR (2002-03)	No	10.00	40.00	Rupees four hundred ninety only
22	Oil seal steel bush P.No.39/ I No.B4 RDED SR (2002-03)	No	10.00	27.00	Rupees twenty two only
23	Guide vane P.No.39/ I No.B5 RDED SR (2002-03)	No	10.00	70.00	Rupees seventy five only
24	Impeller (shell moulded with aluminium and Bronze) P No 39/ I no B6 RDED SR 2002-03	No	30.00	13.00	Rupees one hundred thirty only
25	a) Discharge outlet (D.O) Bearing D.O Steel Bush P.No.39/ I No.B7 RDED SR (2002-03)	No	40.00	2.00	Rupees two hundred twenty only
26	b)D.O Bearing P.No.39/ I No.B7 RDED SR (2002-03)	No	10.00	4.50	Rupees four hundred thirty five only
27	Steel bush (D.O) steel bush) P.No.39/ I No.B8 RDED SR (2002-03)	No	10.00	2.00	Rupees two hundred fifty only
28	Allen Screw P.No.40/ I No.9 RDED SR (2002-03)	No	10.00	10.00	Rupees one hundred fifty only
29	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) P.No.40/ I No.10 RDED SR (2002-03)	No	10.00	20.00	Rupees twenty five only
30	Pump key (Stainless steel) P.No.40/ I No.11 RDED SR (2002-03)	No	10.00	90.00	Rupees nine hundred fifty only
31	Pump coupling (stainless steel) P.No.40/ I No.12RDED SR (2002-03)	No	10.00	10.00	Rupees one hundred twenty five only
		No	10.00	200.00	Rupees two hundred fifty only

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32	Non - Return valve (NRV) assembly complete with rubber 'O' Ring P.No. 40/ I No.13RDED SR (2002-03)	No	10.00	1350.00	Rupees one thousand three hundred fifty only
33	Cable guard P.No. 40/ I No.14RDED SR (2002-03)	No	10.00	150.00	Rupees one hundred fifty only
34	Strainer P.No. 40/ I No.15RDED SR (2002-03)	No	10.00	75.00	Rupees seventy five only
35	Providing and fixing 50 mm dia heavy duty collar SE RDED Approved rate	No	10.00	116.00	Rupees one hundred sixteen only
31	KSRB 2-1.1:Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I NO - 2.1, PWD SR 13-14)	Cum	54.00	173.84	Rupees one hundred seventy three and paise eighty four only
32	Providing and installation at site of works P.V.C.Pipes including cost of pipes and specials and including lowering into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe around to a depth Not less than 15cm with grave or selected earth available from the excavation Etc., Page No.12 item No.3.4.2 b PREDED SR 2010-11.	Rmt			
	75mm dia 6 KSC PVC pipe		60.00	117.00	Rupees one hundred seventeen only
	63 mm dia 6 KSC		40.00	88.00	Rupees eighty eight only
33	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I NO - 2.11, PWD SR 13-14)	Cum	54.00	59.36	Rupees fifty nine and paise thirty six only

Signature of the Contractor

Executive Engineer,
Mehank Division,
BBMP, Bengaluru-64.